Math 212
Quiz 21

W 19 Oct 2016

Your name: _____

Exercise

(2 pt) Write (but do NOT evaluate) an integral to find the surface area of the part of the cylinder

$$S : x^2 + z^2 = 4$$

lying above (i.e. with $z \geqslant 0$) the square D in the xy-plane with vertices $(0,0)$, $(2,0)$, $(2,2)$, $(0,2)$.